



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date October 15, 2021	EPA Reg No./File Symbol 87373-xxx	Page 1 of 12
Applicant's/Registrant's Name & Address Argite, LLC 5000 CentreGreen Way, Suite 100 Cary, NC 27513	Product ARG Spiromesifen Technical	
Ingredient Spiromesifen (CAS No.: 283594-90-1; Chemical Code: 24875)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product Identity and Composition	51544001	Argite, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	51544001	Argite, LLC	OWN	
830.1620	Description of the Production Process	51544001	Argite, LLC	OWN	
830.1650	Description of the Formulation Process				Not required ¹
830.1670	Discussion of Formation of Impurities	51544001	Argite, LLC	OWN	
830.1700	Preliminary Analysis	51544002 51544003	Argite, LLC	OWN	
830.1750	Certified Limits	51544001	Argite, LLC	OWN	
830.1800	Enforcement Analytical Method	51544002 51544003	Argite, LLC	OWN	
830.6302	Color	51544004	Argite, LLC	OWN	
830.6303	Physical State	51544004	Argite, LLC	OWN	
830.6304	Odor	51544004	Argite, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	51544004	Argite, LLC	OWN	
830.6314	Oxidation / Reduction: Chemical Incompatibility	51544004	Argite, LLC	OWN	
830.6315	Flammability	51544010	Argite, LLC	OWN	Waiver ²
830.6316	Explosibility	51544010	Argite, LLC	OWN	Waiver ³
830.6317	Storage Stability	51544010	Argite, LLC	OWN	PRN 92-5 ⁴
830.6319	Miscibility	51544010	Argite, LLC	OWN	Not required ⁵
830.6320	Corrosion Characteristics	51544010	Argite, LLC	OWN	PRN 92-5 ⁴
830.6321	Dielectric Breakdown Voltage	51544010	Argite, LLC	OWN	Not applicable ⁶
830.7000	pH	51544004	Argite, LLC	OWN	
830.7050	UV / Visible Absorption	51544004	Argite, LLC	OWN	
830.7100	Viscosity	51544010	Argite, LLC	OWN	Not applicable ⁷

Signature 	Name and Title Ailis Gregory Regulatory Consultant	Date 10/15/2021
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830.7200	Melting Point / Melting Range	51544005	Argite, LLC	OWN	
830.7220	Boiling Point / Boiling Range	51544010	Argite, LLC	OWN	Not applicable ⁸
830.7300	Density / Relative Density / Bulk Density	51544004	Argite, LLC	OWN	
830.7370	Dissociation Constants in Water	51544010	Argite, LLC	OWN/PL	
830.7520	Particle Size, Fiber Length, and Diameter Distribution	51544010	Argite, LLC	OWN	Waiver ⁹
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method				See 830.7570
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7570
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	51544006	Argite, LLC	OWN	
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	51544007 51544008	Argite, LLC	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	51544009	Argite, LLC	OWN	
870.1100	Acute Oral Toxicity – rat	45819514		OLD	
870.1200	Acute Dermal Toxicity – rat	45819521		OLD	
870.1300	Acute Inhalation Toxicity – rat	45819522		OLD	
870.2400	Eye Irritation	45819525		OLD	
870.2500	Skin Irritation	45819524		OLD	
870.2600	Skin Sensitization	45819518		OLD	
SPIROMESIFEN GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	45819723		OLD	
850.2200	Acute Avian Dietary Toxicity	45819721 45819722		OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2400	Wild Mammal Toxicity				Not required/ See 870 series
850.2300	Avian Reproductive Toxicity	45819626 45819724 47133101 47142201		OLD OLD OLD OLD	
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	45819628 45819704 45819707 45819709		OLD OLD OLD OLD	
850.1010	Freshwater Invertebrate Toxicity	45854512 45819730		OLD OLD	
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	45819702 45819708 45819715		OLD OLD OLD	
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	45819701 45819705		OLD OLD	
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	45819711		OLD	
850.1400	Fish Early Life Stage (Freshwater)	45819727		OLD	
850.1400	Fish Early Life Stage (Saltwater)	50261201	Bayer CropScience LP	PAY	
850.1500	Life Cycle Fish	45819712		OLD	
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	45819720		OLD	
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine	47133103 50363201 50363202	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	PAY PAY PAY	
850.3020	Honey Bee Acute Contact Toxicity	45819718		OLD	
OECD 213	Honey Bee Acute Oral Toxicity	45819718		OLD	
SS-1312	Honey Bee Larvae Acute Oral Toxicity	50260202	Bayer CropScience LP	PAY	
SS-1313	Honey Bee Adult Chronic Oral Toxicity	50488001	Bayer CropScience LP	PAY	
SS-1314	Honey Bee Larvae Chronic Oral Toxicity			GAP	
SS-1155	Pollinator Pollen and Nectar Residue Studies	50261206 50845002 50845003	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	PAY PAY PAY	
SS-1342	Semi-Field Testing for Pollinators (Tunnel or Colony Feeding Studies)	47093201 49717305	Bayer CropScience LP Bayer CropScience LP	PAY PAY	
850.3030	Honeybee Toxicity of Residues on Foliage	47344401 47917201 48033501	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	PAY PAY PAY	
850.3040	Field Testing for Pollinators				Not required
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	45819606		OLD	
870.3100	90-Day Oral: Rodent	45819515		OLD	
870.3150	90-Day Oral: Non-Rodent	45819614 45819623		OLD	
870.3200	21/28-Day Dermal Toxicity	45819603		OLD	
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	45819605 45819622		OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required
870.6200	90-Day Neurotoxicity	45819607		OLD	
870.4100	Chronic Oral Rodent	45819621		OLD	
870.4200	Carcinogenicity	45819624 45819625		OLD OLD	
870.3700	Reproduction / Developmental Toxicity Screening Test	45819604 45819612		OLD OLD	
870.3800	2-Generation Reproduction: Rat	45819619		OLD	
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	45819516		OLD	
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	45819517 45819520		OLD OLD	
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	45819519		OLD	
870.7485	Metabolism and Pharmacokinetics	45819403		OLD	
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	45819828		OLD	
870.7800	Immunotoxicity	45819608 45819615		OLD OLD	
875.1100	Dermal Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	
875.1400	Inhalation Exposure – Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handler Exposure TF	OWN	
875.1600	Data Reporting and Calculations		Agricultural Handler Exposure TF	OWN	
875.1700	Product Use Information		Agricultural Handler Exposure TF	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	45819831		OLD	
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	
201-1	Droplet Size Spectrum		Spray Drift TF	OLD	
202-1	Droplet Size Spectrum		Spray Drift TF	OLD	
850.4100	Tier 1: Seedling Emergence	45819706 45819629		OLD OLD	
850.4150	Tier 1: Vegetative Vigor	45819706 45819629		OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	45819703 45819714 45819716 50261202 50261203	Bayer CropScience LP Bayer CropScience LP	OLD OLD OLD PAY PAY	
850.4100	Tier 2: Seedling Emergence	45819706 45819629		OLD OLD	
850.4150	Tier 2: Vegetative Vigor	45819706 45819629		OLD OLD	
850.4400, 850.5400	Tier 2: Aquatic Plant Growth	45819703 45819714 45819716 50261202 50261203	Bayer CropScience LP Bayer CropScience LP	OLD OLD OLD PAY PAY	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity	50261204	Bayer CropScience LP	PAY	
835.2120	Hydrolysis	45819734		OLD	
835.2240	Photodegradation in Water	45819811		OLD	
835.2410	Photodegradation in Soil	45819801		OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	45819808 45819824 45819825		OLD OLD OLD	
835.4200	Anaerobic Soil Metabolism	45819802		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4300	Aerobic Aquatic Metabolism	45819803 45819804		OLD OLD	
835.4400	Anaerobic Aquatic Metabolism	45819802		OLD	
835.1230	Leaching / Adsorption / Desorption	45819806 45819810 45819819 45819821 45819826		OLD OLD OLD OLD OLD	
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	45819805 45819807 45819812 45819813		OLD OLD OLD OLD	
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods			GAP	
860.1300	Nature of the Residue: Plants	45819406 45819407 45819408		OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	45819404 45819405		OLD OLD	
860.1850	Confined Rotational Crops	45819409		OLD	

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860.1340	Residue Analytical Methods	45819410 45819413 45819416 45819421 45819422 45819423 45819505 45819506 45854503 45854504 48050001	Bayer CropScience LP	OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD PAY	
860.1360	Multiresidue Method	45819420		OLD	
860.1380	Storage Stability	47293301 49242401	Bayer CropScience LP Bayer CropScience LP	PAY PAY	
860.1500	Magnitude of the Residue in Plants: Brassica leafy vegetables (Crop Group 5)	45819426 45819431 46722301		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Bulb vegetables (Crop Group 3-07)	47868501	Bayer CropScience LP	PAY	
860.1500	Magnitude of the Residue in Plants: Corn (field, pop, sweet)	45819501 47262401 47375001 47380201	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	OLD PAY PAY PAY	
860.1500	Magnitude of the Residue in Plants: Cotton	45854502		OLD	
860.1500	Magnitude of the Residue in Plants: Cucurbit vegetables (Crop Group 9)	45819414		OLD	
860.1500	Magnitude of the Residue in Plants: Fruiting vegetables (except cucurbits) (Crop Group 8)	45819417 47303601 47806901	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	OLD PAY PAY	

Signature

Name and Title

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Leafy greens vegetables (Crop Subgroup 4A)	45819427		OLD	
860.1500	Magnitude of the Residue in Plants: Leafy petiole (Crop Subgroup 4B)	45819431 46722301 47805901	Bayer CropScience LP	OLD OLD PAY	
860.1500	Magnitude of the Residue in Plants: Low growing berry (Crop Subgroup 13-07G)	45819411		OLD	
860.1500	Magnitude of the Residue in Plants: Pea, dry	47958901	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Peppermint/Spearmint	47958902	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Succulent shelled, edible-podded and dry shelled beans	47083501	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Tuberous and corm vegetables (Crop Subgroup 1C)	45819502		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	45932401		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	45819425		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: tomatoes	45819418		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: mint	47958902	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: potatoes	45819419		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	45819412		OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required

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860.1900	Field Rotational Crops	45819424 45819428 45819429 45819503 45819504 45890301		OLD OLD OLD OLD OLD OLD	

Signature	Name and Title	Date
	Ailis Gregory Regulatory Consultant	10/15/2021

Data Matrix Endnotes for ARG Spiromesifen Technical

- ¹ **830.1650** – These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- ² **830.6315** – ARG Spiromesifen Technical does not contain combustible liquids and therefore, this data requirement is not required.
- ³ **830.6316** – ARG Spiromesifen Technical does not contain explosive components and therefore, this data requirement is not required.
- ⁴ **830.6317, 830.6320** – Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. Argite, LLC agrees to conduct these studies if required and requests that the studies be made a condition of registration.
- ⁵ **830.6319** – ARG Spiromesifen Technical is a solid and not an emulsifiable concentrate to be diluted with petroleum solvents; therefore, these data are not applicable nor are these data required.
- ⁶ **830.6321** – This product is not intended for use around electrical equipment; therefore, this data requirement is not required.
- ⁷ **830.7100** – ARG Spiromesifen Technical is a solid, and therefore, this data requirement is not applicable.
- ⁸ **830.7220** – ARG Spiromesifen Technical is a solid, and therefore, this data requirement is not applicable.
- ⁹ **830.7520** – ARG Spiromesifen Technical is not a fibrous material; therefore, Argite, LLC requests a waiver for this data requirement.